Dialog Results Page 1 of 32

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Dialog eLink: Order File History

Channel structure for communications system

Patent Assignee: JOU Y; REZAIIFAR R; TIEDEMANN E G; QUALCOMM INC

Inventors: JOU Y; JOU Y C; REZAIIAR R; REZAIIFAR R; TIEDEMANN D G; TIEDEMANN E;

TIEDEMANN E G; TIEDEMANN G; TIEDEMAN E G

Patent Family (36 patents, 83 countries)

Patent Number	Kind	Date	e Application Number			Update	
WO 1999014975	A2	19990325	WO 1998US19334	A	19980916	199921	В
ZA 199808432	Α	19990526	ZA 19988432	A	19980915	199927	E
AU 199894889	Α	19990405	AU 199894889	A	19980916	199933	E
NO 200001334	A	20000510	WO 1998US19334	A	19980916	200034	E
			NO 20001334	A	20000315		
EP 1016303	A2	20000705	EP 1998948285	A	19980916	200035	E
			WO 1998US 19334	A	19980916		
BR 199812317	Α	20000829	BR 199812317	A	19980916	200046	E
			WO 1998US19334	A	19980916		
US 6167270	Α	20001226	US 1997931535	A	19970916	200103	E
			US 2000503871	A	20000214		
CN 1291412	Α	20010411	CN 1998809087	A	19980916	200140	E
KR 2001024009	Α	20010326	KR 2000702738	A	20000315	200161	E
US 20010036831	A1	20011101	US 1997931535	A	19970916	200168	E
			US 2000503869	Α	20000214		
			US 2001870604	A	20010530		
JP 2001517049	W	20011002	WO 1998US19334	A	19980916	200172	Е
			JP 2000512378	A	19980916		
TW 437249	Α	20010528	TW 1999115444	A	19990211	200172	Е
US 6377809	B1	20020423	US 1997931535	Α	19970916	200232	E
MX 2000002632	A1	20011001	MX 20002632	A	20000315	200274	Е
US 20030002464	A 1	20030102	US 1997931535	A	19970916	200305	Е
			US 2000504242	A	20000215		
US 6526030	B2	20030225	US 1997931535	A	19970916	200323	Е
		US 2000504242	A	20000215			
AU 758322	В	20030320	AU 199894889	A	19980916	200329	Е
AU 2003200077	A 1	20030417	AU 199894889	A	19980916	200433	NCE

Dialog Results Page 2 of 32

			AU 2003200077	Α	20030110
RU 2233037	C2	20040720	WO 1998US19334	Α	19980916 200455 E
			RU 2000109590	Α	19980916
MX 219936	В	20040416	WO 1998US19334	Α	19980916 200477 E
			MX 20002632	Α	20000315
EP 1016303	В1	20051214	EP 1998948285	Α	19980916 200602 E
			WO 1998US19334	Α	19980916
DE 69832805	Е	20060119	DE 69832805	Α	19980916 200614 E
			EP 1998948285	Α	19980916
			WO 1998US19334	A	19980916
EP 1641147	A1	20060329	EP 1998948285	Α	19980916 200623 E
			EP 200526669	Α	19980916
CN 1178545	С	20041201	CN 1998809087	Α	19980916 200625 E
DE 69832805	T2	20060810	DE 69832805	Α	19980916 200654 E
			EP 1998948285	Α	19980916
			WO 1998US19334	Α	19980916
KR 2006114392	Α	20061106	WO 1998US19334	Α	19980916 200734 E
			KR 2006721579	Α	20061018
EP 1641147	В1	20080402	EP 1998948285	Α	19980916 200825 E
			EP 200526669	Α	19980916
DE 69839328	Е	20080515	DE 69839328	Α	19980916 200833 E
			EP 200526669	Α	19980916
NO 325590	В1	20080623	WO 1998US19334	Α	19980916 200844 E
			NO 20001334	Α	20000315
KR 685687	В1	20070223	WO 1998US19334	Α	19980916 200850 E
			KR 2000702738	A	20000315
KR 803956	В1	20080215	WO 1998US19334	Α	19980916 200862 E
			KR 2000702738	Α	20000315
			KR 2006721579	Α	20061018
JP 4152584	В2	20080917	WO 1998US19334	Α	19980916 200863 E
			JP 2000512378	Α	19980916
CA 2302942	C	20090203	CA 2302942	Α	19980916 200912 E
			WO 1998US19334	Α	19980916
US 7519044	B1	20090414	US 1997931535	Α	19970916 200926 E
	-		US 2000503401	Α	20000214
DE 69839328	T2	20090514	DE 69839328	Α	19980916 200933 E
			EP 200526669	A	19980916
RU 2335851	C2	20081010	RU 2000109590	Α	19980916 200934 E
			-	⊣—	

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RU 2004100940 A 20040109

Priority Application Number (Number Kind Date): US 1997931535 A 19970916; US 2000503869 A 20000214; US 2000503871 A 20000214; US 2000503401 A 20000214; US 2000504242 A 20000215; US 2001870604 A 20010530; AU 2003200077 A 20030110

Patent Details

Patent Number	Kind	Language	Pages	Drawings	Filing Notes		
WO 1999014975	A2	EN	48	9			
National Designated States, Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW						
Regional Designated States,Original		E IT KE LS			R GB GH GM OA PT SD SE SZ		
ZA 199808432	A	EN	49				
AU 199894889	A	EN			Based on OPI patent WO 1999014975		
NO 200001334	A NO				PCT Application WO 1998US19334		
EP 1016303	A2 EN				PCT Application WO 1998US19334		
	Based on OPI patent WO 1999014975						
Regional Designated States,Original	DE FI FR GB IT SE						
BR 199812317	A	РТ	PCT Application WO 1998US19334				
	Based on patent W 1999014						
US 6167270	A EN				Division of application US		

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ĺ		II		I	1997931535
US 20010036831	A 1	EN			Division of application US 1997931535
					Division of application US 2000503869
JP 2001517049	w	JA	56		PCT Application WO 1998US19334
					Based on OPI patent WO 1999014975
TW 437249	Α	ZH]		
US 20030002464	A1	EN			Division of application US 1997931535
					Division of patent US 6377809
US 6526030	B2	EN			Division of application US 1997931535
					Division of patent US 6377809
AU 758322	В	EN			Previously issued patent AU 9894889
					Based on OPI patent WO 1999014975
AU 2003200077	A1	EN			Division of application AU 199894889
RU 2233037	C2	RU			PCT Application WO 1998US19334
			-		Based on OPI patent WO 1999014975
MX 219936	В	ES			PCT Application

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		WO 1998US19334
		Based on OPI patent WO 1999014975
EP 1016303	B1 EN	PCT Application WO 1998US19334
		Based on OPI patent WO 1999014975
Regional Designated States,Original	DE FI FR GB IT SE	
DE 69832805	E DE	Application EP 1998948285
		PCT Application WO 1998US19334
		Based on OPI patent EP 1016303
		Based on OPI patent WO 1999014975
EP 1641147	A1 EN	Division of application EP 1998948285
		Division of patent EP 1016303
Regional Designated States,Original	AL AT BE CH CY DE DI LI LT LU LV MC MK NI	
DE 69832805	T2 DE	Application EP 1998948285
		PCT Application WO 1998US19334
		Based on OPI patent EP 1016303
		I

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				Based on OPI patent WO 1999014975
KR 2006114392	A	ко		PCT Application WO 1998US19334
				Based on OPI patent WO 1999014975
EP 1641147	В1	EN		Division of application EP 1998948285
				Division of patent EP 1016303
Regional Designated States,Original	DE I	FI FR GB IT	SE	
DE 69839328	Е	DE		Application EP 200526669
			_	Based on OPI patent EP 1641147
NO 325590	В1	NO		PCT Application WO 1998US19334
			-	Previously issued patent NO 200001334
KR 685687	В1	ко		PCT Application WO 1998US19334
				Previously issued patent KR 2001024009
				Based on OPI patent WO 1999014975
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			-	

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6				
				Division of application KR 2000702738
				Previously issued patent KR 2006114392
				Based on OPI patent WO 1999014975
JP 4152584	B2	JA	27	PCT Application WO 1998US19334
				Previously issued patent JP 2001517049
				Based on OPI patent WO 1999014975
CA 2302942	С	EN		PCT Application WO 1998US19334
			•	Based on OPI patent WO 1999014975
US 7519044	В1	EN		Division of application US 1997931535
	-		_	Division of patent US 6377809
DE 69839328	T2	DE		Application EP 200526669
	'		-	Based on OPI patent EP 1641147
RU 2335851	C2	RU		Division of application RU 2000109590

Alerting Abstract: WO A2

NOVELTY - A channel structure includes two sets of physical channels, one for the forward link (50) and one for the reverse link (52) to facilitate communication of a variety of logic channels and the

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physical channels comprise data and control channels. A base station (4) transmits high speed data to a remote station (6) and each base station maintains a data queue (40), while a channel element (42) encodes the data packet and control fields and inserts a set of code tail bits, to form a formatted packet which is scrambled, modulated and sent

DESCRIPTION - Independent claims are included for transmitting and receiving devices of a communications system

USE - Transmitting traffic data and voice data over forward and reverse links

ADVANTAGE - Optimum transmission of data and voice services

DESCRIPTION OF DRAWINGS - The drawing is a block diagram illustrating the basic subsystems of an exemplary communication system embodying the present invention.

50.52 Forward and reverse links

- 4 Base station
- 6 Remote station
- 40 Data queue
- 42 Channel element

International Classification (Main): C07H-021/04, H04B-007/26, H04Q, H04Q-007/38 (Additional/Secondary): C12N-009/88, C12P-013/20

International Patent Classification

IPC	Level	Value	Position	Status	Version
H04B-0007/02	A	I	F	В	20060101
H04B-0007/02	A	I	L		20060101
H04B-0007/185	A	N	L	R	20060101
H04B-0007/185	A	N		R	20060101
H04B-0007/185	A	I	L		20060101
H04B-0007/24	A	I	F	В	20060101
H04B-0007/24	A	I	L		20060101
H04B-0007/26	A	I	L		20060101
H04B-0007/26	A	I	L	В	20060101
H04B-0007/26	A	I	L	R	20060101
H04B-0007/26	A	I	F		20060101
H04B-0007/26	A	I		R	20060101
H04B-0007/26	Α	T	F	В	20060101

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H04J-0001/00	A	I	L	В	20060101
H04J-0013/00	Α	I	L	В	20060101
H04J-0003/24	Α	I	F	В	20060101
H04Q-0007/38	Α	I	F		20060101
H04Q-0007/38	Α	I	F	В	20060101
H04Q-0007/38	Α	I	L		20060101
H04W-0036/18	Α	N		R	20090101
H04W-0036/18	Α	I	L		20090101
H04W-0048/12	Α	N		R	20090101
H04W-0052/02	A	N		R	20090101
H04W-0052/02	Α	I	F		20090101
H04W-0072/04	Α	N		R	20090101
H04W-0076/04	Α	I		R	20090101
H04B-0007/02	C	I		В	20060101
H04B-0007/02	C	I			20060101
H04B-0007/185	C	N	L	R	20060101
H04B-0007/185	C	N		R	20060101
H04B-0007/185	C	I			20060101
H04B-0007/24	C	I		В	20060101
H04B-0007/24	C	I			20060101
H04B-0007/26	C	I	L	В	20060101
H04B-0007/26	C	I	F	В	20060101
H04B-0007/26	C	I	L	R	20060101
H04B-0007/26	C	I			20060101
H04B-0007/26	C	I		R	20060101
H04B-0007/26	C	I		В	20060101
H04J-0001/00	C	I	L	В	20060101
H04J-0013/00	C	I	L	В	20060101
H04J-0003/24	C	I		В	20060101
H04Q-0007/38	C	I		В	20060101
H04Q-0007/38	C	I			20060101
H04W-0036/00	C	N		R	20090101
H04W-0036/00	C	I			20090101
H04W-0048/00	C	N		R	20090101
H04W-0052/00	C	N		R	20090101
H04W-0052/00	C	I			20090101

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H04W-0072/00 C N R 20090101 H04W-0076/00 C I R 20090101

US Classification, Issued: 370-336000, 370-349000, 455-442000, 455-455000

US Classification, Issued: 370-331000, 370-335000, 370-342000, 375-340000, 455-062000, 455-

067110, 455-443000, 455-455000, 455-522000, 455-525000 US Classification, Issued: 455455, 455525, 455443, 375340, 370336, 455442, 455455, 45562, 370331,

455455, 455522, 45567.1, 370335, 370342, 370335, 370342, 455522, 370349

Original Publication Data by Authority

Australia

Publication Number: AU 2003200077 A1 (Update 200433 NCE)

Publication Date: 20030417

Assignee: QUALCOMM INC (QCOM)

Inventor: REZAIIFAR R JOU Y TIEDEMANN D G

Language: EN

Application: AU 199894889 A 19980916 (Division of application) AU 2003200077 A 20030110 (Local

application)

Priority: AU 2003200077 A 20030110 (Local application)

Original IPC: C07H-21/04(A) C12N-9/88(B) C12P-13/20(B)

Current IPC: C07H-21/04(A) C12N-9/88(B) C12P-13/20(B)IAU 758322 B (Update 200329 E)

Publication Date: 20030320

Assignee: QUALCOMM INC; US (QCOM)

Language: EN

Application: AU 199894889 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Related Publication: AU 9894889 A (Previously issued patent) WO 1999014975 A (Based on OPI

patent)

Original IPC: H04Q-7/38(A)

Current IPC: H04B-7/185(R.N.M.EP.20060101,20051008,A) H04B-7/185

(R.N.M.EP.20060101.20051008.C) H04B-7/26(R.I.M.EP.20060101.20051008.A) H04B-7/26

(R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00

(B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18

(R.N.M.EP.20090101.20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02

(R.N.M.EP.20090101.20090105.A)

(K,N,N,EP,20090101,20090105,A

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02IAU 199894889 A (Update 199933 E)

Publication Date: 19990405

Assignee: QUALCOMM INC; US (QCOM)

Language: EN

Application: AU 199894889 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04O-7/38(A)

Current IPC: H04B-7/185(R,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26

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(B,I,M,RU,20060101,20050627,C,L.) H04J-13/00(B,I,M,RU,20060101,20040720,A,L.) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L.) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/00 (R,N,M,EP,20090101,20090105,C) H04W-52/02 (R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02

Brazil

Publication Number: BR 199812317 A (Update 200046 E)

Publication Date: 20000829

Assignee: QUALCOMM INC (QCOM)

Inventor: REZAIIFAR R

Language: PT

Application: BR 199812317 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04Q-7/38(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

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(R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02

Canada

Publication Number: CA 2302942 C (Update 200912 E)

Publication Date: 20090203

Assignee: OUALCOMM INC (OCOM)

Inventor: JOU Y REZAIIFAR R TIEDEMANN E G

Language: EN

Application: CA 2302942 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04B-7/185(I,CA,20060101,A,L) H04B-7/185(I,M,98,20060101,C) H04W-36/00 (I,M,98,20090101,C) H04W-36/18(I,CA,20090101,A,L) H04W-52/00(I,M,98,20090101,C) H04W-

52/02(I,CA,20090101,A,F)

Current IPC: H04B-7/185(I,CA,20060101,A,L) H04B-7/185(I,M,98,20060101,C) H04W-36/00 (I,M,98,20090101,C) H04W-36/18(I,CA,20090101,A,L) H04W-52/00(I,M,98,20090101,A,F)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:18588 T04O-7:22S3 T04O-7:32E4 T04O-7:38C2 T04O-7:38C8

T04O-7:38H4 T04W-36:18 T04W-52:02

China

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Publication Number: CN 1178545 C (Update 200625 E)

Publication Date: 20041201

Assignee: QUALCOMM INC; US (QCOM) Inventor: REZAIIFAR R TIEDEMANN E G

Language: ZH

Application; CN 1998809087 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Original IPC: H04Q-7/38(A) H04B-7/26(B)

Current IPC; H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

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(R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04O-7/38C2 H04O-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02lCN 1291412 A (Update 200140 E)

Publication Date: 20010411

Assignee: QUALCOMM INC; US (QCOM)

Language: ZH

Application: CN 1998809087 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Original IPC: H04Q-7/38(A) H04B-7/26(B)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

 $(R,N,M,EP,20060101,20051008,C)\ H04B-7/26 (R,I,M,EP,20060101,20051008,A)\ H04B-7/26 (R,I,M,EP,20060101,20051008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H04B-7/26 (R,I,M,EP,200601008,B)\ H0$

(R.I.M.EP.20060101, 20051008, C) H041-1/00(B.I.M.RU,20060101, 20050627, A,L) H041-1/00 B.I.M.RU,20060101, 20050627, C,L) H041-13/00(B.I.M.RU,20060101,20040720, A,L) H041-13/00 (B.I.M.RU,20060101, 20040720, C,L) H04W-36/00(R.N.M.EP.20090101, 20090105, C) H04W-36/18

(R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02 (R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04O-7/38C2 H04O-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Germany

Publication Number: DE 69832805 E (Update 200614 E)

Publication Date: 20060119

Assignee: QUALCOMM INC; US (QCOM)

Inventor: REZAIIFAR R JOU Y TIEDEMANN G

Language: DE

Application: DE 69832805 A 19980916 (Local application) EP 1998948285 A 19980916 (Application)

WO 1998US19334 A 19980916 (PCT Application)

Priority: US 1997931535 A 19970916

Related Publication: EP 1016303 A (Based on OPI patent) WO 1999014975 A (Based on OPI patent)

Original IPC: H04B-7/26(I,DE,20060101,A,L) H04Q-7/38(I,DE,20060101,A,F)

Current IPC: H04B-7/26(I,DE,20060101,A,L) H04Q-7/38(I,DE,20060101,A,F)|DE 69832805 T2

(Update 200654 E)

Publication Date: 20060810

Assignee: QUALCOMM INC; US (QCOM)
Inventor: REZAIIFAR R JOU Y TIEDEMANN G

http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=351,... 5/24/2010

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Language: DE

Application: DE 69832805 A 19980916 (Local application) EP 1998948285 A 19980916 (Application)

WO 1998US19334 A 19980916 (PCT Application)

Priority: US 1997931535 A 19970916

Related Publication: EP 1016303 A (Based on OPI patent) WO 1999014975 A (Based on OPI patent) Original IPC; H04B-7/26(B,I,H,EP,20060101,20051017,A,L) H04Q-7/38

(B,I,H,EP,20060101,20051017,A,F)

Current IPC: H04B-7/185(R,N,M,EP,20060101,20051008,A) H04B-7/185

(R.N.M.EP.20060101.20051008.C) H04B-7/26(B.I.H.EP.20060101.20051017.A.L) H04B-7/26

(B.I.H.EP,20060101,20051017,C.L) H04J-1/00(B.I.M.RU,20060101,20050627,A.L) H04J-1/00 (B.I.M.RU.20060101.20050627.C.L) H04J-13/00(B.I.M.RU.20060101.20040720.A.L) H04J-13/00

(B.I.M.RU,20060101,20040720,C.L.) H04W-36/00(R.N.M.EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02 (R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04O-7:22S3 T04O-7:32E4 T04O-7:38C2 T04O-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02IDE 69839328 E (Update 200833 E)

Publication Date: 20080515

Assignee: OUALCOMM INC; US (OCOM)

Inventor: REZAIIFAR R TIEDEMANN E G JOU Y

Language: DE

Application: DE 69839328 A 19980916 (Local application) EP 200526669 A 19980916 (Application) Priority: US 1997931535 A 19970916

Related Publication; EP 1641147 A (Based on OPI patent)

Original IPC: H04B-7/26(I.DE.20060101, A.F.) H04B-7/26(I.M.98,20060101, C.) H04O-7/38

(I.DE,20060101,A.L) H04O-7/38(I,M,98,20060101,C)

Current IPC: H04B-7/26(I,DE,20060101,A,F) H04B-7/26(I,M,98,20060101,C) H04Q-7/38

(I,DE,20060101,A,L) H04Q-7/38(I,M,98,20060101,C)IDE 69839328 T2 (Update 200933 E)

Publication Date: 20090514

Kanalstruktur fuer Kommunikationssysteme

Assignee: QUALCOMM INC; US (QCOM) Inventor: JOU Y REZAIIFAR R TIEDEMANN E G

Language: DE

Application: DE 69839328 A 19980916 (Local application) EP 200526669 A 19980916 (Application)

Priority: US 1997931535 A 19970916

Related Publication: EP 1641147 A (Based on OPI patent)

Original IPC: H04B-7/26(B,I,H,EP,20060101,20060309,A,F) H04B-7/26

(B.I.M.98.20060101.20060309.C)

Current IPC: H04B-7/26(B.I.H.EP.20060101.20060309.A.F) H04B-7/26

(B.I.M.98,20060101,20060309,C)

Current ECLA class: H04B-7/26T10 H04O-7/38C2 H04O-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Claim: Ein Kanalaufbau bzw. -struktur fuer Kommunikationssysteme, die Folgendes aufweist:

mindestens einen Fundamentalkanal zum Senden von Verkehrsdaten. Sprachdaten und Signalisierung. gekennzeichnet durch; einen Zusatzkanal zum Senden von Verkehrsdaten; einen Paging-Kanal zum Senden von Paging-Nachrichten; und wobei der Fundamentalkanal und der Zusatzkanal (supplemental channel) in der Lage sind, gleichzeitig zu senden bzw. gesendet zu werden und die Kanalstruktur

weiterhin einen Pilot-/Steuerkanal aufweist zum Senden eines Piloten und Steuernachrichten, wobei die Steuernachrichten gesendet werden ueber Steuerrahmen und wobei jeder der Steuerrahmen einen

Bruchteil eines Verkehrskanalrahmens ist und die Steuernachrichten eine

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Rueckwaertsverbindungsdatenanfrage aufweisen.

European Patent Office Publication Date: 20000705

Publication Number: EP 1016303 A2 (Update 200035 E)

KANALSTRUKTUR FUR KOMMUNIKATIONSSYSTEMEN CHANNEL STRUCTURE FOR COMMUNICATION SYSTEMS STRUCTURE DE VOIES POUR SYSTEMES DE COMMUNICATION

Assignee: QUALCOMM Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714, US

(QCOM)

Inventor; REZAIIFAR, Ramin, 7580 Charmant Drive 2224, San Diego, CA 92121, US TIEDEMANN, Edward, G., Jr., 4350 Bromfield Avenue, San Diego, CA 92122, US JOU, Yu-Cheun, 9979 Riverhead Drive, San Diego, CA 92129, US

Agent: Walsh, Michael Joseph, TOMKINS CO., 5, Dartmouth Road, Dublin 6, IE

Language: EN

Application: EP 1998948285 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Designated States: (Regional Original) DE FI FR GB IT SE

Original IPC: H04Q-7/38(A) H04B-7/26(B)

Current IPC: H04B-7/185(R.A.N.M.EP.20060101.20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R.I.M.EP,20060101,20051008.C) H04J-1/00(B.I.M.RU,20060101,20050627,A.L) H04J-1/00 (B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02 (R.N.M.EP.20090101.20090105.A)

Current ECLA class: H04B-7/26T10 H04O-7/38C2 H04O-7/38H

Current ECLA ICO class: T04B-7:185S8 T04O-7:22S3 T04O-7:32E4 T04O-7:38C2 T04O-7:38C8 T04O-7:38H4 T04W-36:18 T04W-52:02

Original Abstract; In a channel structure for use in communication systems, two sets of physical channels, one for the forward link (50) and another for the reverse link (52), are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilize the available capacity. The control channels are used to transmit paging and control messages and scheduling information, IEP 1016303 B1 (Update 200602 E)

Publication Date: 20051214

**KANALSTRUKTUR FUR KOMMUNIKATIONSSYSTEMEN CHANNEL STRUCTURE FOR COMMUNICATION SYSTEMS STRUCTURE DE VOIES POUR SYSTEMES DE

COMMUNICATION**

Assignee: OUALCOMM INCORPORATED, 5775 Morehouse Drive, San Diego, CA 92121-1714, US (OCOM)

Inventor: REZAIIFAR, Ramin, 7580 Charmant Drive 2224, San Diego, CA 92121, US TIEDEMANN, Edward, G., Jr., 4350 Bromfield Avenue, San Diego, CA 92122, US JOU, Yu-Cheun, 9979 Riverhead Drive, San Diego, CA 92129, US

Agent: Walsh, Michael Joseph, TOMKINS CO., 5, Dartmouth Road, Dublin 6, IE

Language: EN

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Application: EP 1998948285 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent) Designated States: (Regional Original) DE FI FR GB IT SE

Original IPC; H04Q-7/38(A) H04B-7/26(B)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(R,1,M,RU,200001011,20031008,C) 11043-1700(B,1,M,RU,20000101,20030027,A,L) 11043-1700 (B,1,M,RU,20060101,20050627,C,L) H04J-13/00(B,1,M,RU,20060101,20040720,A,L) H04J-13/00 (B,1,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02

(R,N,M,EP,20090101,20090105,A)

Current ECLA class; H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Claim: 1.Ein Kanalaufbau bzw. -struktur in einem Telekommunikationssystem, in de m Spreizspektrumtechniken verwendet werden, und in dem die Kanalstruktu r zumindest einen Paging-Kanal unterstutzt, wobei jeder Paging-Kanal ve rwendet wird zum Senden von Paging-Nachrichten zu einer Vielzahl von en tfernten Stationen (6), und wobei die Kanalstruktur einen Zusatzkanal (supplemental channel) unterstutzt, wobei jeder Zusatzkanal verwendet wi rd zum Senden von Hochgeschwindigkeits-Verkehrsdaten bzw. -Datenverkehr, wobei die Kanalstruktur ** gekennzeichnet ist durch**: * einen Fundamentalkanal zum Austauschen von Sprachverkehr und Datenver kehr zwischen einer entfernten Station (6) der Vielzahl von entfernte n Stationen und einer anderen Station. wobei der Fundamentalkanal nur verwendet werden kann, wenn die entfernte Station (6) in einem Verke hrskanalmodus ist; und * einen Steuerkanal zum Austauschen von Signalisierungsinformation zwis chen der entfernten Station (6) und der anderen Station, wobei der St euerkanal nur verwendet werden kann, wenn die entfernte Station in de m Verkehrskanalmodus ist. 1.A channel structure in a telecommunications system in which spread spec trum techniques are used, and in which said channel structure supports at least one paging channel, wherein each paging channel is for transmi tting paging messages to a plurality of remote stations (6), and in whi ch the channel structure supports a supplemental channel, wherein each supplemental channel is for transmitting high speed data traffic, the c hannel structure **characterised by **: * a fundamental channel for exchanging voice traffic and data traffic b etween a remote station (6) of said plurality of remote stations and another station, wherein said fundamental channel can be used only when said remote station (6) is in a traffic channel mode; and * a control channel for exchanging signaling information between said r emote station (6) and said another station, wherein said control chan nel can be used only when said remote station is in said traffic chan nel mode. 1. Structure de canal dans un systeme de telecommunication dans lequel on utilise des techniques a etalement de spectre, la structure de canal co mportant au moins un canal de teleavertissement, chaque canal de teleav ertissement etant destine a emettre des messages de teleavertissement v ers une pluralite de postes eloignes (6), la structure de canal comport ant un canal supplementaire, chaque canal supplementaire etant destine a transmettre des donnees a haut debit, la structure de canal etant ** caracterisee par**: * un canal fondamental pour echanger des communications vocales et des communications de donnees entre un poste eloigne (6) de la pluralite de postes eloignes et une autre station, le canal fondamental ne pouv ant etre utilise que quand le poste eloigne (6) est dans un mode de c anal de communication; et * un canal de commande pour echanger des informations de signalisation entre le poste eloigne (6) et ladite autre station, le canal de comma nde ne pouvant etre utilise que quand le poste eloigne est dans le mo de de canal de communication. EP

1641147 A1 (Update 200623 E) Public ation Date: 20060329

^{**}Kanalstruktur fur Kommunikationssysteme Channe 1 structure for communication systems Structure

Dialog Results Page 16 of 32

de canal pour systeme s de communication**

Assignee: Oualcomm, Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714, US (OCOM) Inventor: Rezaiifar, Ramin, 7580 Charmant Drive 2224, San Diego, CA 92121, US TIEDEMANN E Jou, Yu-Cheun, 9979 Riverhead Drive, San Diego, CA 92129, US

Agent: Gates, Marie Christina Esther, c/o Tomkins Co., 5 Dartmouth Road, Dublin 6, IE Language: EN

Application: EP 1998948285 A 19980916 (Division of application) EP 200526669 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Related Publication; EP 1016303 A (Division of patent)

Designated States: (Regional Original) AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU

LV MC MK NL PT RO SE SI

Original IPC: H04B-7/26(B,I,H,EP,20060101,20060104,A,F) H04Q-7/38

(B,I,H,EP,20060101,20060104,A,L)

Current IPC: H04B-7/26(B,I,H,EP,20060101,20060104,A,F) H04B-7/26

(B.I.H.EP.20060101.20060104.C.L) H04W-36/00(R.N.M.EP.20090101.20090105.C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-72/00(R,N,M,EP,20090101,20090105,C) H04W-72/04 (R.N.M.EP.20090101.20090105,A) H04W-76/00(R.I.M.EP.20090101.20090105,C) H04W-76/04 (R.I.M.EP.20090101.20090105.A)

Current ECLA class; H04B-7/26S12 H04Q-7/22S3P H04W-76/04

Current ECLA ICO class: T04B-7:185S8 T04Q-7:38H4 T04W-36:18 T04W-72:04

Original Abstract: In a channel structure for use in communication systems, two sets of physical channels, one for the forward link (50) and another for the reverse link (52), are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilize the available capacity. The control channels are used to transmit paging and control messages and scheduling information.

Claim: 1.A channel structure for communication systems comprising: * at least one fundamental channel for transmitting traffic data, voice data, and signaling; * a supplemental channel for transmitting traffic data; and * a paging channel for transmitting paging messages.IEP 1641147 B1 (Up date 200825 E) Publication Date: 20080402

Kanalstruktur fur Kommuni kationssysteme Channel structure for communication systems Structure de canal pour systemes de communication

Assignee: Qualcomm, Incorpo rated, 5775 Morehouse Drive, San Diego, CA 92121-1714, US (QCOM) Inve ntor: Rezaiifar, Ramin, 7580 Charmant Drive 2224, San Diego, CA 92121, US TIEDEMANN E Jou, Yu-Cheun, 9979 Riverhead Drive, San Diego, CA 9 2129, US

Agent: Gates, Marie Christina Esther, c/o Tomkins Co., 5 Da rtmouth Road, Dublin 6, IE

Language: EN

Application: EP 1998948285 A 19980916 (Division of application) EP 200526669 A 19980916 (Local app lication)

Priority: US 1997931535 A 19970916

Related Publication: EP 1016303 A (Division of patent)

Designated States: (Regional Original) DE FI FR GB IT SE

Original IPC: H04B-7/26(B,I,H,EP,20060101,20060104,A,F) H04B-7/26

(B.I.M.98.20060101,20060104.C) H04O-7/38(B.I.H.EP.200 60101,20060104.A.L) H04O-7/38

(B.I.M.98,20060101,20060104,C)

Current I PC: H04B-7/26(B,I,H,EP,20060101,20060104,A,F) H04B-7/26(B,I,H,EP,2006

0101,20060104,C,F) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/1 8 (R,N,M,EP,20090101,20090105,A) H04W-72/00(R,N,M,EP,20090101,20090105,C) H04W-72/04

http://toolkit.dialog.com/intranet/cgi/present?STYLE=1360084482&PRESENT=DB=351,... 5/24/2010 Dialog Results Page 17 of 32

(R,N,M,EP,20090101,20090105,A) H04W-76/00(R,I,M,EP,2009 0101,20090105,C) H04W-76/04 (R.I.M.EP.20090101.20090105.A)

Current ECLA class: H04B-7/26S12 H04O-7/22S3P H04W-76/04

Current ECLA ICO class: T04B-7:185S8 T04O-7:38H4 T04W-36:18 T04W-72:04

Claim: 1.Ein Kanalaufbau bzw. -struktur fur Kommunikationssysteme, die Folgendes aufweist: * mindestens einen Fundamentalkanal zum Senden von Verkehrsdaten, Sprac hdaten und Signalisierung, **gekennzeichnet durch**: * einen Zusatzkanal zum Senden von Verkehrsdaten; * einen Paging-Kanal zum Senden von Paging-Nachrichten; und wobei der Fundamentalkanal und der Zusatzkanal (supplemental channel) in de r Lage sind, gleichzeitig zu senden und die Kanalstruktur weiterhin einen Pilot-/Steuerkanal aufweist zum Senden eines Piloten und Ste uernachrichten, wobei die Steuernachrichten gesendet werden uber St euerrahmen und wobei jeder der Steuerrahmen einen Bruchteil eines V erkehrskanalrahmens ist und die Steuernachrichten eine Ruckwartsver bindungsdatenanfrage aufweisen. 1.A channel structure for communication systems comprising: * at least one fundamental channel for transmitting traffic data, voice data, and signaling **characterized by** * a supplemental channel for transmitting traffic data; * a paging channel for transmitting paging messages; and wherein said fundamental channel and said supplemental channel are capable of conc urrent transmission and said channel structure further comprises a pi lot/control channel for transmitting a pilot and control messages, sa id control messages are transmitted over control frames and wherein e ach of said control frames is a fraction of a traffic channel frame and said control messages comprise a reverse link data request, 1. Structure de canal pour systemes de communication comprenant; * au moins un canal fondamental pour transmettre des donnees de communi cation et donnees vocales et de la signalisation, ** caracterisee par* * un canal supplementaire pour transmettre des donnees de communicati on: un canal de teleavertissement pour transmettre des massages de te leavertissement; et dans laquelle le canal fondamental et le canal su pplementaire sont aptes a une transmission simultanee et la structure de canal comprend en outre un canal pilote/de commande pour transmet tre des messages pilotes et de commande, les messages de commande eta nt transmis sur des trames de commande, chacune des trames de command e etant une fraction d'une trame de canal de communication, et les me ssages de commande comprenant une requete de donnees en liaison inver se,

Japan

Publication Number: JP 2001517049 W (Update 200172 E)

Publication Date: 20011002 Language: JA (56 pages)

Assignee: QUALCOMM INC; US (QCOM)

Application: JP 2000512378 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent) Original IPC: H04O-7/22(A) H04O-7/28(B) H04O-7/36(B)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26

(R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00

(B.I.M.RU,20060101,20040720,C.L.) H04W-36/00(R.N.M.EP,20090101,20090105,C) H04W-36/18

(R.N.M.EP.20090101.20090105,A) H04W-52/00(R.N.M.EP.20090101.20090105,C) H04W-52/02

(R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04O-7:38H4 T04W-36:18 T04W-52:02

Current JP FI-Terms: H04B-7/26 105 D H04Q-7/00 543 H04Q-7/00 547 H04Q-7/04 K

Current JP F-Terms: 5K067 5K067AA15 5K067BB04 5K067CC10 5K067EE24 5K067GG08

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5K067JJ12 5K067JJ13 5K067JJ15 5K067JJ36JJP 4152584 B2 (Update 200863 E)

Publication Date: 20080917

The channel structure of a communication system

Assignee: QUALCOMM INC; JP (QCOM)

Language: JA (27 pages)

Application: WO 1998US19334 A 19980916 (PCT Application) JP 2000512378 A 19980916 (Local

application)

Priority: US 1997931535 A 19970916

Related Publication: JP 2001517049 A (Previously issued patent) WO 1999014975 A (Based on OPI

patent)

Original IPC: H04Q-7/38(B,I,H,JP,20060101,20080828,A,F) H04Q-7/38

(B,I,M,98,20060101,20080828,C)

Current IPC: H04B-7/185(R,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26

(R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00

(B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/02 (R,N,M,EP,20090101,20090105,C) H04W-52/02

(R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02

Current JP FI-Terms: H04Q-7/00 547 (main, A) H04Q-7/00 543 (secondary, B) H04B-7/26 105 D H04Q-7/00 543 H04Q-7/00 547 H04Q-7/04 K

Current JP F-Terms: 5K067 5K067AA15 5K067BB04 5K067CC10 5K067EE24 5K067GG08

5K067JJ12 5K067JJ13 5K067JJ15 5K067JJ36

Original Abstract: This invention relates to the channel structure of a communication system.

Claim: Spread spectrum technology is used and a channel structure supports a paging channel. It is for each paging channel to transmit a paging message to several remote stationlgames, The said channel structure supports an auxiliarylassistant channel.

Republic of Korea

Publication Number: KR 2001024009 A (Update 200161 E)

Publication Date: 20010326

Assignee: QUALCOMM INC (QCOM)

Language: KO

Application: KR 2000702738 A 20000315 (Local application)

Priority: US 1997931535 A 19970916

Original IPC: H04B-7/26(A)

Current IPC: H04B-7/26(A)IKR 2006114392 A (Update 200734 E)

Publication Date: 20061106

Assignee: QUALCOMM INC (QCOM)

Inventor: REZAIIFAR, RAMIN JOU, YU CHEUN TIEDEMANN, EDWARD G. JR.

Language: KO

Application: KR 2006721579 A 20061018 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04B-7/02(B,I,H,KR,20060101,20061101,A,F) H04B-7/02

(B,I,M,98,20060101,20061101,C) H04B-7/24(B,I,H,KR,20060101,20061101,A,F) H04B-7/24 (B,I,M,98,20060101,20061101,C) H04B-7/26(B,I,H,KR,20060101,20061101,A,F) H04B-7/26

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(B,I,M,98,20060101,20061101,C) H04Q-7/38(B,I,H,KR,20060101,20061101,A,F) H04Q-7/38 (B.I.M.98,20060101,20061101,C)

Current IPC: H04B-7/02(B.I.H.KR.20060101.20061101.A.F) H04B-7/02

(B.I.M.98,20060101,20061101,C) H04B-7/24(B.I.H.KR,20060101,20061101,A,F) H04B-7/24

(B,I,M,98,20060101,20061101,C) H04B-7/26(B,I,H,KR,20060101,20061101,A,F) H04B-7/26

(B.I,M,98,20060101,20061101,C) H04Q-7/38(B,I,H,KR,20060101,20061101,A,F) H04Q-7/38

(B,I,M,98,20060101,20061101,C)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:18588 T04O-7:22S3 T04O-7:32E4 T04O-7:38C2 T04O-7:38C8

T04O-7;38H4 T04W-36;18 T04W-52;02|KR 685687 B1 (Update 200850 E)

Publication Date: 20070223

Channel strucure for communication systems

Assignee: QUALCOMM INC (QCQM)

Inventor: REZAIIFAR R JOU Y C TIEDEMANN E

Language: KO

Application: KR 2000702738 A 20000315 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: KR 2001024009 A (Previously issued patent) WO 1999014975 A (Based on OPI

Original IPC: H04B-7/26(B,I,H,KR,20060101,20000824,A,F) H04B-7/26

(B,I,M,98,20060101,20000824,C)

Current IPC: H04B-7/26(B.I.H.KR.20060101.20000824,A.F) H04B-7/26

(B.I.M.98.20060101.20000824.C)|KR 803956 B1 (Update 200862 E)

Publication Date: 20080215

CHANNEL STRUCTURE FOR COMMUNICATION SYSTEMS

Assignee: QUALCOMM INC; US (QCOM)

Inventor: REZAIIFAR, RAMIN JOU, YU-CHEUN TIEDEMANN, EDWARD, G. JR.

Language: KO

Application: WO 1998US19334 A 19980916 (PCT Application) KR 2000702738 A 20000315

(Division of application) KR 2006721579 A 20061018 (Local application)

Priority: US 1997931535 A 19970916

Related Publication: KR 2006114392 A (Previously issued patent) WO 1999014975 A (Based on OPI

Original IPC: H04B-7/02(I,KR,20060101,A,L) H04B-7/02(I,M,98,20060101,C) H04B-7/24 (I,KR,20060101,A,L) H04B-7/24(I,M,98,20060101,C) H04B-7/26(I,KR,20060101,A,F) H04B-7/26 (I,M,98,20060101,C) H04Q-7/38(I,KR,20060101,A,L) H04Q-7/38(I,M,98,20060101,C)

Current IPC: H04B-7/02(I,KR,20060101,A,L) H04B-7/02(I,M,98,20060101,C) H04B-7/24

(I,KR,20060101,A,L) H04B-7/24(I,M,98,20060101,C) H04B-7/26(I,KR,20060101,A,F) H04B-7/26 (LM.98,20060101.C) H04O-7/38(LKR.20060101.A.L) H04O-7/38(LM.98,20060101.C)

Original Abstract: In the channel structure of being used for the communications system, the physical channel of 2 set one by one respects various logical channels of communications for the forward link (50) and reverse link (52) to easily do and it is used. The physical channel provides data and control channel. The data channel in the illustrative embodiment provides the fundamental channel, which is used it transmits the voice traffic, data traffic, and high-speed data and the other additional information and the supplemental channel which is used to transmit high-speed data. When the remote station is at leisure, in order that the available capacity is more completely used, the fundamental channel can be canceled. The control channel is used when paging, the control message and scheduling information are transmitted. The channel structure of the communications system. Image 1/1

Claim: [CLAIM 1] The communications system including traffic data, the variable rate channel phosphorus transmitting audio data and signaling, and operates among the dedicated mode supporting Dialog Results Page 20 of 32

the single transmission or the common mode supporting multiplex to a one, one or more fundamental channels, and the paging channel. The paging channel is the supplemental channel transmitting traffic data, and transmits the , supplemental channel and paging message having data rate which distinguished the supplemental channel is controlled by demand from the side receiving the supplemental channel the supplemental channel with one or more fundamental channels, [CLAIM 2] The communications system of claim 1, wherein the fundamental channel is supported by the soft handoff; and the fundamental channel is allocated for the communications backbone in other words. [CLAIM 3] The communications system of claim 2, wherein the cycle of the deactivation about the remote station exceeds the first prescribed threshold; and the fundamental channel is canceled with the remote station, [CLAIM 4] The communications system of claim 3, wherein the cycle of the deactivation about the remote station exceeds the first prescribed threshold; and the state of communications is maintained, [CLAIM 5] The communications system of claim 4, wherein the cycle of the deactivation about the remote station exceeds the second prescribed threshold; and the state of communications is not maintained. [CLAIM 6] The communications system transmited to data rate of claim 1, wherein the supplemental channel is allocated for the high speed data transmission in the remote station; it can data-send to the supplemental channel among a plurality of data rates to one; the supplemental channel is not supported by the soft handoff; the supplemental channel is transmited from the best base station within the remote station active set; and the supplemental channel is fixed for the transmission period in other words. [CLAIM 7] The communications system which data rate is allocated according to the power head room of the document source; and the fixed data rate as described above is allocated according to the energy per bit required for transmission in other words of claim 6, wherein the fixed data rate as described above is allocated according to amount of transmited data; and it above statement is fixed. [CLAIM 8] The communications system including the pilot / control channel of claim 1, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and the communications system transmits the pilot and control message in other words, [CLAIM 9] The communications system of claim 8, wherein the control message is transmitted in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request. [CLAIM 10] The communications system of claim 9, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words, ICLAIM 111 The communications system which includes the multi shell N power level display; the control message includes the multi-carrier power level of the carrier wave of the remote station active set; and the control message includes the erasure indicator bit showing the deletion state of data frame which before is received in other words of claim 8, wherein the control message shows the received electrical power level toward the pilot of the remote station active set. [CLAIM 12] The communications system which is transmited from the base station; it is transmited to the multi shell N power level in the first control frame of the traffic channel frame; it is transmited to the multi-carrier power level in the second control frame of the traffic channel frame; and the erasure indicator bit is transmited in the third control frame of the traffic channel frame of claim 11, wherein the supplemental channel is selected according to the multi shell N power level. [CLAIM 13] The communications system of claim 9, wherein the reverse link data request is transmited in the fourth control frame of the traffic channel frame. [CLAIM 14] The communications system including the control channel of claim 1, wherein the scheduling information and signaling are transmitted, [CLAIM 15] The communications system which includes data rate; it includes the period about the allocated transmission the scheduling information; signaling includes the erasure indicator bit showing the deletion state of data frame which before is received; and includes the indicator bit expressing whether or not message exists in the fundamental channel about the remote station the signaling information in other words of claim 14. wherein the scheduling information is allocated, [CLAIM 16] The communications system of claim 1, wherein the paging channel the cycle of the deactivation about the remote station exceeds the first prescribed threshold is received to the specific-slotted mode with the remote station; and in other words the paging channel is received to the slotted mode with the remote station in case the cycle of the deactivation about the remote station exceeds the second prescribed threshold. [CLAIM 17] The

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communications system equipped with the synchronous channel, transmitting the pilot channel or the system timing in formation the origination message and the access channel transmitting the paging response message of claim 1, wherein the pilot is transmitted. [CLAIM 18] The transmission device for the, communications system which includes traffic data at one or more fundamental channels, audio data and signaling are transmitted, the supplemental channel transmits traffic data, and the transmitter transmitting the paging message in the paging channel, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. [CLAIM 19] The receiving device for the communications system which includes traffic data transmited in one or more fundamental channels, audio data and signaling are received, traffic data transmited in the supplemental channel are received, and the receiver receiving the paging message transmited in the paging channel, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel, [CLAIM 20] Deletion, [CLAIM 21] The, method of transmission which includes traffic data in one or more fundamental channels it is the method for transmitting data in the wireless telecommunications system, the step transmitting audio data and signaling, the step that the supplemental channel transmits traffic data, and the step that the paging channel transmits the paging message, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel, ICLAIM 221 The, method of transmission for more including step of claim 21, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and data transmission process transmits the pilot and control message in the pilot / control channel. [CLAIM 23] The method of transmission of claim 22, wherein the control message is transmited in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request. [CLAIM 24] The method of transmission of claim 23, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words. [CLAIM 25] The method of transmission which includes the multi shell N power level display; the control message includes the multi-carrier power level of the carrier wave of the remote station active set; the control message includes the erasure indicator bit showing the deletion state of data frame which before is received and the multi-carrier power level is transmited to the supplemental channel from the base station selected according to the multi shell N power level; the multi shell N power level is transmited in the first control frame of the traffic channel frame; the multi-carrier power level is transmited in the second control frame of the traffic channel frame; and the erasure indicator bit is transmitted in the third control frame of the traffic channel frame of claim 23, wherein the control message shows the received electrical power level toward the pilot of the remote station active set, [CLAIM 26] The method of transmission of claim 23, wherein the paging channel the cycle of the deactivation about the remote station exceeds the first prescribed threshold is received to the specific-slotted mode with the remote station; and the paging channel is received to slotted mode with the remote station in case the cycle of the deactivation about the remote station exceeds the second prescribed threshold, [CLAIM 27] The. transmission device which includes traffic data in one or more fundamental channels as the transmission device for the communications system, the means transmitting audio data and signaling, the means, and the means, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more

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fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. The means the supplemental channel transmits traffic data. The means the paging channel transmits the paging message. [CLAIM 28] The transmission device which more includes the means; and the control message is transmited in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request of claim 27, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and the transmission device transmits the , pilot and control message. [CLAIM 29] The transmission device of claim 28, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words. [CLAIM 30] The, processor which includes the processing circuit comprised traffic data in one or more fundamental channels, audio data and signaling are transmitted, the supplemental channel transmits traffic data, and the paging channel transmits the paging message, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel, ICLAIM 311 Processor of claim 30, wherein the fundamental channel and supplemental channel can the simultaneous transmission; it is more comprised of the processing circuit in order to transmit the pilot and control message; and the control message is transmited in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request. [CLAIM 32] Processor of claim 31, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words, ICLAIM 331 The, machine readable media is the machine readable media having one or more commands transmitting data in the wireless telecommunications system, and the paging channel transmits the paging message while processor transmits traffic data, and audio data and signaling in one or more fundamental channels and the supplemental channel transmitting traffic data in case of being performed by processor, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. [CLAIM 34] The machine readable media which has one or more commands; and the control message is transmited in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request of claim 33, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and processor additionally transmits the pilot and control message in case the machine readable media is performed by processor. [CLAIM 35] The machine readable media of claim 34, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words. [CLAIM 36] The , data receiving method which includes traffic data in one or more fundamental channels it is the method for receiving data by the wireless telecommunications system, the step receiving audio data and signaling, the step receiving traffic data by the supplemental channel, and the step receiving the paging message by the paging channel, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel, ICLAIM 371 The, data receiving method for more including step of claim 36, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and the receiving method receives the pilot and control message by the pilot / control channel. [CLAIM 38] The data receiving method of claim 37, wherein the control message is received in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data

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request, ICLAIM 391 The data receiving method of claim 38, wherein the reverse link data request includes the display toward the amount of transmitted data; and the reverse link data request includes the display about the power head room in other words, [CLAIM 40] The data receiving method of claim 36. wherein the paging channel the cycle of the deactivation about the remote station exceeds the first prescribed threshold is received to the specific-slotted mode with the remote station; and in other words the paging channel is received to the slotted mode with the remote station in case the cycle of the deactivation about the remote station exceeds the second prescribed threshold. [CLAIM 41] The, receiving device which includes traffic data in one or more fundamental channels as the receiving device for the communications system, the means receiving audio data and signaling, the means receiving traffic data by the supplemental channel, and the means receiving the paging message by the paging channel, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. [CLAIM 42] The receiving device which more includes the means; and the control message is received in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request of claim 41, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and it receives the pilot and control message by the receiving device by the pilot / control channel, [CLAIM 43] The receiving device of claim 42, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words. [CLAIM 44] The, processor which includes the processing circuit comprised traffic data in one or more fundamental channels, audio data and signaling are received, traffic data are received by the supplemental channel, and the paging message is received by the paging channel, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. [CLAIM 45] Processor of claim 44, wherein the fundamental channel and supplemental channel can the simultaneous transmission; it is more comprised of the processing circuit in order to receive the pilot and control message by the , pilot / control channel; and the control message is received in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request, ICLAIM 461 Processor of claim 45, wherein the reverse link data request includes the display toward the amount of transmited data; and the reverse link data request includes the display about the power head room in other words. [CLAIM 47] The, machine readable media is the machine readable media having one or more commands transmitting data in the wireless telecommunications system, and processor receives the paging message by the paging channel while processor receives traffic data, and audio data and signaling by one or more fundamental channels and processor receives traffic data by the supplemental channel in case of being performed by processor, and in which one or more fundamental channels are the variable rate channel operating among the dedicated mode supporting the single transmission or the common mode supporting multiplex to a one, and in which the supplemental channel is distinguished from one or more fundamental channels, and which moreover, the supplemental channel has data rate controlled by demand from the side receiving the supplemental channel. [CLAIM 48] The machine readable media which has one or more commands; and the control message is received in the control frame and the control frame is a part of the traffic channel frame or the control message includes the reverse link data request of claim 47, wherein the fundamental channel and supplemental channel can the simultaneous transmission; and processor additionally transmits the pilot and control message in case the machine readable media is performed by processor, [CLAIM 49] The machine readable media of claim 48, wherein the reverse link data request includes the display toward the amount of transmitted data; and the reverse link data request includes the display about the power head room in other words.

Dialog Results Page 24 of 32

Mexico

Publication Number: MX 2000002632 A1 (Update 200274 E)

Publication Date: 20011001

Assignee: OUALCOMM INC (OCOM)

Inventor: TIEDEMANN E G JOU Y REZAIIFAR R

Language: ES

Application: MX 20002632 A 20000315 (Local application)

Priority: US 1997931535 A 19970916

Original IPC: H04O-7/38(A) H04O-7/38(A)

Current IPC: H04O-7/38(A) H04O-7/38(A) IMX 219936 B (Update 200477 E)

Publication Date: 20040416

Assignee: OUALCOMM INC (OCOM)

Inventor: TIEDEMANN E G JOU Y REZAIIFAR R

Language: ES

Application: MX 20002632 A 20000315 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04Q-7/38(A) H04Q-7/38(A) Current IPC: H04Q-7/38(A) H04Q-7/38(A)

Norway

Publication Number: NO 200001334 A (Update 200034 E)

Publication Date: 20000510

Assignee: QUALCOMM INC (QCOM) Inventor: REZAIIAR R TIEDEMANN E G JOU Y

Language: NO

Application: NO 20001334 A 20000315 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Original IPC: H04Q(A) Current IPC: H04Q(A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04O-7;38H4 T04W-36;18 T04W-52;02INO 325590 B1 (Update 200844 E)

Publication Date: 20080623

Assignee: QUALCOMM INC; US (QCOM)
Inventor: REZAIIFAR R TIEDEMANN E G JOU Y

Language: NO

Application: NO 20001334 A 20000315 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: NO 200001334 A (Previously issued patent)

Original IPC: H04B-7/185(N,NO,20060101,A,L) H04B-7/185(N,M,98,20060101,C) H04B-7/26

(I,NO,20060101,A.L) H04B-7/26(I,M,98,20060101,C) H04Q-7/22(I,NO,20060101,A.L) H04Q-7/22 (I,M,98,20060101,C) H04Q-7/28(I,NO,20060101,A,L) H04Q-7/28(I,M,98,20060101,C) H04Q-7/32 (N,NO,20060101,A.L) H04Q-7/32(N,M,98,20060101,C) H04Q-7/36(I,NO,20060101,A.L) H04Q-7/36

(I,M,98,20060101,C) H04Q-7/38(I,NO,20060101,A,F) H04Q-7/38(I,M,98,20060101,C)

Current IPC: H04B-7/185(R,N,M,NO,20060101,20070322,A,L) H04B-7/185

(R,N,M,NO,20060101,20070322,C,L) H04B-7/26(R,I,M,NO,20060101,20070322,A,L) H04B-7/26 (R,I,M,NO,20060101,20070322,C,L) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00 Dialog Results Page 25 of 32

(B.I.M.RU.20060101.20050627,C.L.) H04J-13/00(B.I.M.RU.20060101.20040720,A.L.) H04J-13/00 (B.I.M.RU.20060101.20040720,C.L.) H04W-36/00(R.N.M.EP,20090101.20090105,C) H04W-36/18 (R.N.M.EP,20090101.20090105,C) H04W-52/02 (R.N.M.EP,20090101.20090105,C) H04W-52/02 (R.N.M.EP,20090101.20090105,C)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02

Russia

Publication Number: RU 2233037 C2 (Update 200455 E)

Publication Date: 20040720

Assignee: QUALCOMM INC; US (QCOM)

Language: RU

Application: RU 2000109590 A 19980916 (Local application) WO 1998US19334 A 19980916 (PCT

Application)

Priority: US 1997931535 A 19970916

Related Publication: WO 1999014975 A (Based on OPI patent)

Original IPC: H04J-13/00(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,C) H04W-52/02 (R,N,M,EP,20090101,20090105,C)

(K,N,N,EF,20090101,20090103,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02IRU 2335851 C2 (Update 200934 E)

Publication Date: 20081010

Assignee: QUALCOMM INC; US (QUAL-N)

Language: RU

Application: RU 2000109590 A 19980916 (Division of application) RU 2004100940 A 20040109

(Local application)

Priority: US 1997931535 A 19970916

Current ECLA class: H04B-7/26T10 H04O-7/38C2 H04O-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Taiwan

Publication Number: TW 437249 A (Update 200172 E)

Publication Date: 20010528

Assignee: QUALCOMM INC; US (QCOM)

Inventor: JOU Y

Language: ZH

Application: TW 1999115444 A 19990211 (Local application)

Priority: US 1997931535 A 19970916 Original IPC: H04Q-7/38(A) H04Q-7/38(A)

Current IPC: H04Q-7/38(A) H04Q-7/38(A)
Current ECLA class; H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Dialog Results Page 26 of 32

United States

Publication Number: US 20010036831 A1 (Update 200168 E) Publication Date: 20011101

Assignee: Rezaiifar, Ramin, San Diego, CA, US (REZA-I) Jou, Yu-Chen, San Diego, CA, US (JOUY-I) Inventor; Rezaiifar, Ramin, San Diego, CA, US Jou, Yu-Chen, San Diego, CA, US

Agent: QUALCOMM Incorporated, 5775 Morehouse Drive, San Diego, CA, US

Language: EN

Application: US 1997931535 A 19970916 (Division of application) US 2000503869 A 20000214

(Division of application) US 2001870604 A 20010530 (Local application)

Supplemental channel selection in wireless communication systems

Original IPC: H04O-7/20(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26

(R,I,M,EP,20060101,20051008,C) H04W-48/00(R,N,M,EP,20090101,20090105,C) H04W-48/12 (R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02 (R.N.M.EP.20090101.20090105.A)

Current ECLA class: H04B-7/26T10 H04O-7/38C2

Current ECLA ICO class; T04B-7:18588 T04O-7:22S3 T04O-7:32E4 T04O-7:38C8 T04W-48:12 T04W-52:02

Current US Class (main): 455-455000

Current US Class (secondary): 375-340000 455-443000 455-525000

Original US Class (main): 455455

Original US Class (secondary): 455525 455443 375340

Original Abstract: A channel structure for use in communication systems. Two sets of physical channels, one for the forward link and another for the reverse link, are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. The data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information, and supplemental channels which are used to transmit high speed data. In response to a power measurement report, a base station can send a control channel frame on a control channel to identify a modified set of base station channels from which a remote station is to receive supplemental channels. The code channels corresponding to the supplemental channels are transmitted to remote station via signaling messages.

Claim: We claim: 1.**1**. In a wireless communication system in which a plurality of base stations transmit a fundamental channel to a remote station, a method for receiving supplemental channel data, the method comprising; * transmitting from the remote station a message indicative of the relative strengths of signals received from said plurality of base statio ns; * receiving through said fundamental channel a control channel message indicating a subset of said plurality of base stations for receiving the supplemental channel data; and * demodulating the supplemental channel data from signals transmitted f rom said subset of said plurality of base stations. JUS 20030002464 A 1 (Update 200305 E)

Publication Date: 20030102

Channel structure fo r communication systems

Assignee: Rezaiifar, Ramin, San Diego, CA, US (REZA-I) Jou, Yu-Cheun, San Diego, CA, US (JOUY-I) Tiedemann, Edwa rd G. JR., San Diego, CA, US (TIED-I)

Inventor: Rezaiifar, Ramin, San Diego, CA, US Tiedemann, Edward G. JR., San Diego, CA, US Jou, Yu-Ch eun, San Diego, CA, US

Agent: Qualcomm Incorporated, Patents Department, 5775 Morehouse Drive, San Diego, CA, US Language: EN

Application: US 1997931535 A 19970916 (Division of application) US 2000504242 A 2 0000215 (Local application)

Related Publication: US 6377809 A (Divis ion of patent)

Original IPC: H04J-3/00(A)

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Current IPC: H04B-7/185(R,A, N,M,EP,20060101,20051008,A) H04B-7/185 (R,N,M,EP,20060101,20051008,C) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00 (B,I,M,RU,20060101,20050627,C,L) H04J-13/00 (B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/02 (R,N,M,EP,20090101,20090105,C)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7;38H4 T04W-36:18 T04W-52:02 Current US Class (main): 370-336000

Original US Class (main): 370336

Original Abstract: A channel structure for use in communication systems. Two sets of physical channels, one for the forward link and another for the reverse link, are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilized the available capacity. The control channels are used to transmit paging and control messages and scheduling information.

Claim: We Claim: 1.**1**. A method for operating a remote station in a plurality of activ ity modes comprising the steps of: * operating said remote station in a traffic mode in which dedicated traffic channels are allocated to said remote station who said remote station is actively receiving and transmitting data; * operating said remote station in a suspended mode wherein said dedica ted traffic channels are de-allocated and said remote station monitors a paging channel in an unslotted mode when the time interval, in which said remote station neither transmits its nor receives data, exce eds a first threshold interval; and * operating said remote station in a dormant mode wherein said remote s tation monitors said paging channel in a slotted mode when the time i nterval in which said remote station neither transmits nor receives d ata exceeds a second threshold interval.IUS 6167270 A (Update 200103 E)

Publication Date: 20001226

Soft handoff in the transmission of supplemental channel data.

Assignee: Oualcomm Inc., San Diego, CA, US (OCOM)

Inventor: Rezaiifar, Ramin, San Diego, CA, US Tiedemann, Jr., Edward G., San Diego, CA, US Jou, Yu-Cheun, San Diego, CA, US

Agent: Wadsworth; Philip Ro

Language: EN

Application: US 1997931535 A 19970916 (Division of application) US 2000503871 A 20000214

(Local application)

Original IPC: H04Q-7/20(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

 $\begin{array}{l} (R,N,M,EP,20060101,20051008,C)\ H04B-7/26(R,I,M,EP,20060101,20051008,A)\ H04B-7/26(R,I,M,EP,20060101,20051008,C)\ H04J-1/00(B,I,M,RU,20060101,20050627,A,L)\ H04J-1/00 \end{array}$

(B,I,M,RU,20060101,20050627,C,L) H04J-13/00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18 (R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02 (R,N,M,EP,20090101,20090105,A)

(K,N,N,EP,20090101,20090103,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8 T04Q-7:38H4 T04W-36:18 T04W-52:02

Current US Class (main): 455-442000

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Current US Class (secondary): 370-331000 455-062000 455-455000

Original US Class (main): 455442

Original US Class (secondary): 455455 45562 370331

Original Abstract: A channel structure for use in communication systems. Two sets of physical channels, one for the forward link and another for the reverse link, are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilized the available capacity. The control channels are used to transmit paging and control messages and scheduling information.

Claim: 1.In a wireless communication system in which a remote station is receiving fundamental channel data from a plurality of base stations, a method for performing soft handoff in the transmission of supplemental channel data, comprising the steps of: * measuring the strength of signals from said plurality of base stations; a comparing the strength of signals of a termaining set base stations; comparing the strength of signals of a remaining set base stations to the strength of said strongest signal; determining whether said strengths of signals of a remaining set base stations is within a predetermined energy threshold of the strength of said strongest signal; transmitting a message indicative of said determination from said remote station; selecting at least one base stations from said havality of base stations to transmit said supplemental channel date to said.

base station from said plurality of base stati ons to transmit said supplemental channel data to said remote station in accordance with said message; * transmitting said supplemental channel data to said remote station fr

rubilcation Date. 20020423

Channel structure for communicat ion systems.

Assignee: Qualcomm Incorporated, San Diego, CA, US (QC OM)

Inventor: Rezaiifar, Ramin, San Diego, CA, US Tiedemann, Jr., Edw ard G., San Diego, CA, US Jou, Yu-Cheun, San Diego, CA, US

Agent: Wad sworth; Philip Baker; Kent D. Rouse; Thomas R.

Language: EN

Application: US 1997931535 A 19970916 (Local application)

Original IPC: H04Q-7 /22(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,200510 08,A) H04B-7/26

(R.I.M.EP.20060101,20051008.C) H04J-1/00(B.I.M.RU,2006 0101,20050627,A.L) H04J-1/00

(B,I,M,RU,20060101,20050627,C,L) H04J-13/ 00(B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,A,L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/10 (R,N,M,EP,20090101,20090105,C) H04W-36/18

(R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-5 2/02 (R,N,M,EP,20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H 04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

Current US Class (main): 455-455000

Current US Class (secondary): 370-335000 370-342000 455-067110 455-522000

Original US Class (main): 455455

Original US Class (secondary): 455522 45567.1 370335 370342

Original Abstract: An improved channel structure for use in communication systems is disclosed. The channel structure utilizes two sets of physical channels, one for the forward link and another for the reverse link. The physical channels include data channels and control channels, and the data channels are further divided into fundamental channels and supplemental channels. Fundamental channels are used to transmit voice traffic, data traffic, high speed data, and other overhead information, and supplemental channels are used to transmit high speed data. The fundamental channels may be released

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when the remote stations are idle to more fully utilized the available capacity. The control channels are used to transmit paging and control messages and scheduling information. This abstract appears solely to satisfy requirements of 37 CFR 1.72 and is therefore not intended to be used for interpreting the scope of the claims.

Claim: 1.In a telecommunications system in which spread spectrum techniques are used, and in which a channel structure supports a paging channel, where in each paging channel is for transmitting paging messages to a plurali ty of remote stations, and in which the channel structure supports a su pplemental channel, wherein each supplemental channel is for transmitti ng high speed data traffic, the channel structure comprising: * a fundamental channel for exchanging voice traffic and data traffic b etween a remote station of said plurality of remote stations and anot her base station, wherein said fundamental channel can be used only when said remote station is in a traffic state, and wherein said remot e station is in said traffic state only when said remote station is n of monitoring the paging channel; and * a control channel for exchanging signaling information between said r emote station and said another station, said control channel comprisi ng control frames, wherein the length of each of said control frames is a fraction of the length of a traffic channel frame, and wherein s aid control channel can be used only when said remote station is in s aid traffic state, wherein a reverse link is used to transmit data fr om a remote station to a base station, and wherein a forward link is used to transmit data from a base station to a remote station, wherein control frames in the reverse link direction comprise one or more r everse link messages comprising; * erasure indication bits (EIBs) for informing said base station whethe r frames received on the forward link fundamental and supplemental channels were received as erasures; * inter-cell power level measurements for informing said base station of the pilot in said remote stationprimes active set that was received with the highest energy-per-chip-to-interference ratio, and for iden tifying to said base station all pilots in said remote station primes active set whose energyper-chip-to-interference ratio are within a p redetermined power level of the pilot received with said highest ener gy-per-chip-to-interference ratio; * inter-carrier power level measurements for informing said base station of the varying strength of pilots received by said remote station on different carrier frequencies; and * a reverse link data request for requesting a supplemental channel for the transmission of high speed data traffic, wherein said reverse li nk data request contains a queue size associated with the amount of d at a ready for transmission on the reverse link, and wherein said reverse link data request contains a power headroom associated with the a mount of remaining power that said remote station has available for t ransmission. IUS 6526030 B2 (Update 200323 E)

Publication Date: 20030225

Channel structure for communication systems

Assignee: Qualcomm Incorporated, San Diego, CA, US (QCOM)

Inventor: Rezaiifar, Ramin, San Diego, CA, US Tiedemann, Jr., Edward G., San Diego, CA, US Jou,

Yu-Cheun, San Diego, CA, US

Agent: Wadsworth, Philip, US Baker, Kent D., US Yafuso, Byron, US

Language: EN

Application: US 1997931535 A 19970916 (Division of application) US 2000504242 A 20000215

(Local application)

Related Publication: US 6377809 A (Division of patent)

Original IPC: H04B-7/216(A)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26

(R.I.M.EP.20060101.20051008.C) H04J-1/00(B.I.M.RU.20060101.20050627.A.L) H04J-1/00

(B.I.M.RU.20060101.20050627.C.L.) H04J-13/00(B.I.M.RU.20060101.20040720.A.L.) H04J-13/00

(B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18

(R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02

(R.N.M.EP.20090101,20090105,A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:18588 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

Dialog Results Page 30 of 32

T04O-7:38H4 T04W-36:18 T04W-52:02

Original US Class (main): 370335

Original US Class (secondary): 370342 455522

Original Abstract: A channel structure for use in communication systems. Two sets of physical channels, one for the forward link and another for the reverse link, are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilized the available capacity. The control channels are used to transmit paging and control messages and scheduling information.

Claim; We claim: 1.1. A method for operating a remote station in a plurality of activity m odes comprising: * operating said remote station in a traffic mode in which dedicated tr affic channels are allocated to said remote station when said remote station is actively receiving and transmitting data; * storing, in the remote station, a Radio Link Protocol (RLP) state ass ociated with an active data session of said traffic mode: * storing a traffic channel configuration associated with said traffic mode: * storing encryption variables associated with said traffic mode; * operating said remote station in a suspended mode wherein said dedica ted traffic channels are de-allocated and said remote station monitor's a paging channel in a non-slotted mode when a traffic mode time interval, in which said remote station operates in the traffic mode and neither transmits nor receives data, exceeds a first threshold interval; * operating said remote station in a dormant mode wherein said remote s tation monitors said paging channel in a slotted mode when a suspende d mode time interval in which said remote station operates in the sus pended mode and neither transmits nor receives data exceeds a second threshold interval; and * utilizing the stored RLP state, the stored traffic channel configuration, and the stored encryption variables for the transmission and rec eption of traffic after receiving a channel assignment message on sai d paging channel. JUS 7519044 B1 (Update 200926 E)

Publication Date: 20090414

Channel structure for communication systems

Assignee: Re zaiifar, Ramin, San Diego, CA, US Residence: US Jou, Yu-Chen, San Die go, CA, US Residence: US Tiedeman, Jr., Edward G., San Diego, CA, US Residence: US QUALCOMM

Incorporated, San Diego, CA, US (QCOM) Invento r: Jou, Yu-Chen, San Diego, CA, US Residence: US Rezaiifar, Ramin, San Diego, CA, US Residence: US Tiedeman, Jr., Edward G., San Diego, CA, US Residence: US

Agent: Rouse, Thomas R. Jenckes, Kenyon S. Vu, Ken neth K.

Language: EN

Application: US 2000503401 A 20000214 (Local application) US 1997931535 A 19970916 (Division of application)

Related Publication: US 6377809 A (Division of patent)

Original IPC: H04J-3/24(B,I,H,US,20060101,20090414,A,F) H04J-3/24

(B.I.M.98,20060101,20090414,C)

Current IPC: H04J-3/24(B,I,H,US,20060101,20090414,A,F) H04J-3/24

(B,I,M,98,20060101,20090414,C)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04O-7:38H4 T04W-36:18 T04W-52:02 Current US Class (main): 370-349000 Original US Class (main): 370349

Original Abstract; A channel structure for use in communication systems. Two sets of physical channels, one for the forward link and another for the reverse link, are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are Dialog Results Page 31 of 32

used to transmit voice traffic, data traffic, high speed data, and other overhead information and supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilized the available capacity. The control channels are used to transmit paging and control messages and scheduling information.

Claim: We claim: 1.1. A method for transmitting data comprising the steps of: * transmitting, prior to and independent of said data transmission, a message indicative of the rate of said data and a time interval over which said data will be transmitted at said rate; and * transmitting said data at said rate during said time interval using a data transmission channel; * wherein said message comprises; * an indication of a frame type selected from a plurality of frame type s including link schedule, channel active set, and erasure-indicator bit, wherein each of each of these frame types is transmitted at some time; * an indication of said rate of said data; and * an indication of said time interval; * wherein said link schedule indicates the duration of said data transm ission; * wherein said channel active set indicates a set of base stations; and * wherein said erasure-indicator-bit indicates an erasure of previously received frames.

WIPO

Publication Number: WO 1999014975 A2 (Update 199921 B)

Publication Date: 19990325

CHANNEL STRUCTURE FOR COMMUNICATION SYSTEMS STRUCTURE DE VOIES POUR SYSTEMES DE COMMUNICATION

Assignee: QUALCOMM INCORPORATED, 6455 Lusk Boulevard, San Diego, CA 92121, US

Residence: US Nationality: US (QCOM)

Inventor: REZAIIFAR, Ramin, 7580 Charmant Drive #2224, San Diego, CA 92121, US TIEDEMANN, Edward, G., Jr., 4350 Bromfield Avenue, San Diego, CA 92122, US JOU, Yu-Cheun, 9979 Riverhead Drive, San Diego, CA 92129, US

Agent; MILLER, Russell, B., Qualcomm Incorporated, 6455 Lusk Boulevard, San Diego, CA 92121, US

Language: EN (48 pages, 9 drawings)

Application: WO 1998US19334 A 19980916 (Local application)

Priority: US 1997931535 A 19970916

Designated States; (National Original) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW (Regional Original) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

Original IPC: H04Q-7/38(A)

Current IPC: H04B-7/185(R.A.N.M.EP.20060101,20051008,A) H04B-7/185

(R,N,M.EP,20060101,20051008.C) H04B-7/26(R,I,M.EP,20060101,20051008.A) H04B-7/26

(R.I.M.EP,20060101,20051008.C) H04J-1/00(B.I.M.RU,20060101,20050627,A.L) H04J-1/00

(B.I.M.RU,20060101,20050627,C,L) H04J-13/00(B.I.M.RU,20060101,20040720,A.L) H04J-13/00 (B,I,M,RU,20060101,20040720,C,L) H04W-36/00(R,N,M,EP,20090101,20090105,C) H04W-36/18

(R,N,M,EP,20090101,20090105,A) H04W-52/00(R,N,M,EP,20090101,20090105,C) H04W-52/02

(R.N.M.EP.20090101.20090105.A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04O-7:22S3 T04O-7:32E4 T04O-7:38C2 T04O-7:38C8 T04O-7:38H4 T04W-20:142 T04W-26:02

Original Abstract; In a channel structure for use in communication systems, two sets of physical channels, one for the forward link (50) and another for the reverse link (52), are utilized to facilitate communication of a variety of logical channels. The physical channels comprise data and control channels. In the exemplary embodiment, the data channels comprise fundamental channels which are used to transmit voice traffic, data traffic, high speed data, and other overhead information and

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supplemental channels which are used to transmit high speed data. The fundamental channels can be released when the remote stations are idle to more fully utilize the available capacity. The control channels are used to transmit paging and control messages and scheduling information. L'invention concerne une structure de voies pour systeme de communication dans laquelle il existe deux series de voies physiques, une pour la liaison aller (50) et une autre pour la liaison retour (52). On utilise les deux series en question pour faciliter la communication sur un certain nombre de voies logiques. Les voies physiques comprennent des voies de donnees et des voies de commande. Dans l'exemple considere, les voies de donnees comprennent des voies fondamentales utilisees pour le trafic telephonique, le trafic de donnees et atransmission de donnees a grande vitesse, et autres informations de service, mais aussi des voies supplementaires utilisees pour la transmission de donnees a grande vitesse. Il est possible de liberer les voies fondamentales lorsque les stations eloignees sont au repos, de maniere a tirer parti plus pleinement de la capacite disponible. Les voies de commande sont utilisees pour la radiomessagerie, la transmission des messages de commande et la transmission des donnees a l'ordonnancement.

South Africa

Publication Number: ZA 199808432 A (Update 199927 E)

Publication Date: 19990526

Assignee: QUALCOMM INC (QCOM)

Inventor: REZAIIFAR R TIEDEMANN E G JOU Y

Language: EN (49 pages)

Application: ZA 19988432 A 19980915 (Local application)

Priority: US 1997931535 A 19970916

Original IPC: H04B(A) H04J(B) H04L(B) H04M(B) H04Q(B)

Current IPC: H04B-7/185(R,A,N,M,EP,20060101,20051008,A) H04B-7/185

(R,N,M,EP,20060101,20051008,C) H04B-7/26(R,I,M,EP,20060101,20051008,A) H04B-7/26 (R,I,M,EP,20060101,20051008,C) H04J-1/00(B,I,M,RU,20060101,20050627,A,L) H04J-1/00

(B.I.M.RU,20060101,20050627,C.L.) H04J-13/00(B.I.M.RU,20060101,20040720,A.L.) H04J-13/00 (B.I.M.RU,20060101,20040720,C.L.) H04W-36/00(R.N.M.EP,20090101,20090105,C) H04W-36/18 (R.N.M.EP,20090101,20090105,A) H04W-52/00(R.N.M.EP,20090101,20090105,C) H04W-52/02

(R.N.M.EP.20090101.20090105.A)

Current ECLA class: H04B-7/26T10 H04Q-7/38C2 H04Q-7/38H

Current ECLA ICO class: T04B-7:185S8 T04Q-7:22S3 T04Q-7:32E4 T04Q-7:38C2 T04Q-7:38C8

T04Q-7:38H4 T04W-36:18 T04W-52:02

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